



Hyper 363P RGB USER MANUAL

CE



Catalog

Summary...	1
Safety Information.....	1
Outside Dimensions.....	2
Features	3
DMX Controller Functions.....	3
Control Panel Instructions	7
Manual instructions.....	7
Operating Mode Instruction	9
XRL Cable Connection	10
Cable Connection Diagram.....	11
Exploded View	13
Illuminance List.....	14
Troubleshooting	15
Technical Specifications.....	16

Please read over this manual before operating the light

1. Summary

➤ Summary

Thank you for purchasing our LED PAR lighting. Please read these instructions carefully before starting and operate the fixture according to these instructions in order to avoid any possible damages and accidents caused by misuse.

➤ Product Introduction

This LED PAR color-changing projecting light is constructed of high strength die-cast aluminum. It uses high power red, green, and blue LED diodes. Each color can be independently set at 256 discrete levels. It uses a switching power supply for low weight, efficient power use, stability, and long life. It can be operated by built-in programs including dimmer, strobe, gradual change, fading, etc., or by international standard DMX 512 signal.

➤ Packing list

- LED Light Fixture
- DMX Cable
- User Manual

2. Safety Information

➤ Safety Notes

- Repairs should only be attempted only by qualified technicians
- Always make sure to disconnect from the power source before setting up, servicing, or moving
- Avoid direct eye exposure to the LEDs when the unit is powered on



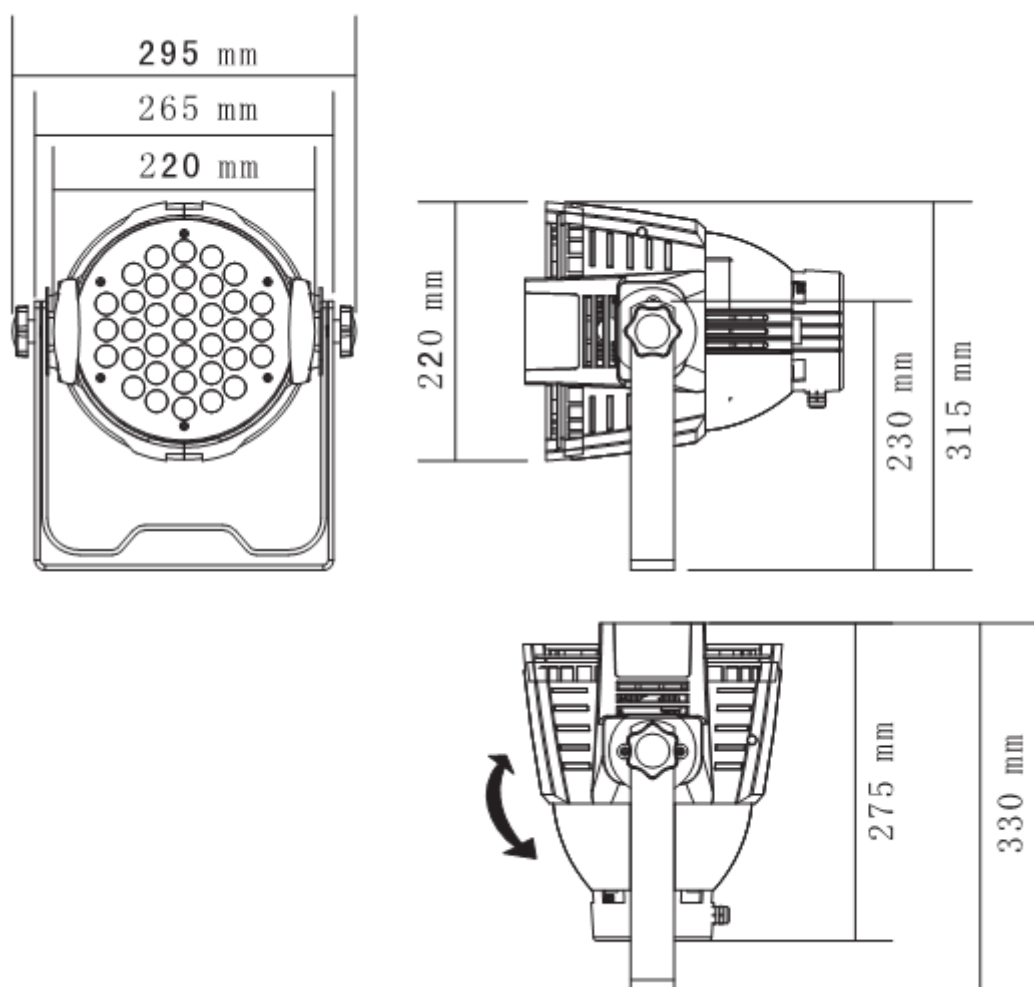
➤ Safety Instructions

- Make sure the power supply voltage is consistent with the requirements of this light.
- Before installation, please check that the light's fasteners and mechanical structure

have arrived in good condition and without damage.

- This light is designed for indoor use only. Ambient temperature should not exceed 105 degrees Fahrenheit (40 degrees Celsius).
- This fixture may be mounted in any position provided there is adequate room for ventilation. Make sure there are no flammable or explosive objects within 1.5 feet (0.5 meters).
- Please make sure that this fixture is properly grounded.

3. Outside Dimensions



Hyper 363

4. Features

- High quality LEDs: low consumption, high brightness, stable output, and long life
- Each color LED capable of 256 discrete levels, RGB can make over 16.7 million colors
- Linear dimming 0-100%, strobe, color change by either fading or snapping
- DMX512 Controller, 4 button set DMX ID address with LCD display
- Auto run / Sound activated / Master-slave / DMX control board
- Switching power supply for optimal functioning
- Lens degree: 25° (15° or 45° lens optional)
- DMX512 3/6/7/8 channels

5. DMX Controller Functions

3 Channel Operation

DMX Channel	Value	Control Function	Priority
1CH	0—255	R 0—100%	
2CH	0—255	G 0—100%	
3CH	0—255	B 0—100%	

6 Channel Operation

Channel	DMX Value	Control Function	Remark	Priority
1CH	0-255	Master dimmer 0—100%	You must use channel 1 along with 2, 3, or 4, otherwise no output.	1
2CH	0-255	Red Dimming		
3CH	0-255	Green Dimming		
4CH	0-255	Blue Dimming		
5CH	0-14	Not used	Speed adjustment when channel 6 is set between 32 - 223	2
	15-255	Strobe Speed		
6CH	0-31	Not used		3
	32-63	From dark to bright	You must use channel 1 along with 2, 3, or 4, otherwise no output. Adjust speed with channel 5.	
	64-95	From bright to dark		
	96-127	From dark-bright-dark		
	128-164	RGB Gradient	Adjust speed with channel 5. (CH1, 2, 3, 4 not used)	
	165-191	RGB dark-bright-dark Auto run		
	192-223	7 color snapping		
	224-255	Sound activated		

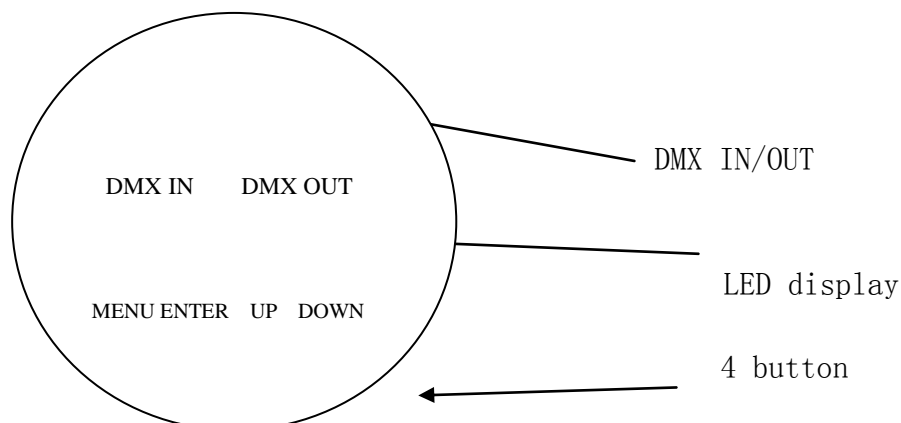
7 Channel Operation

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	96-127	From dark-bright-dark		
	128-164	RGB Gradient	Adjust speed with channel 5 (CH1, 2, 3, 4 not used)	
	165-191	RGB dark-bright-dark Auto run		
	192-223	7 color snapping		
	224-255	Sound activated		
7CH	0-9	Not used	You must use channel 1, otherwise no output.	2
	10-29	Red 100%		
	30-39	R85%+Y15%		
	40-49	R60%+Y40%		
	50-69	Yellow 100%		
	70-79	Y85%+G15%		
	80-89	Y60%+G40%		
	90-109	Green 100%		
	110-119	G85%+B15%		
	120-129	G60%+B40%		
	130-149	Blue 100%		
	150-159	B85%+C15%		
	160-169	B60+C40%		
	170-189	Cyan 100%		
	190-199	C50%+M50%		
	200-219	Magenta 100%		2
	220-229	M50%+W50%		
	230-249	W95%+Y5%		
	250-255	White 100%		

8 Channel Operation

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	200-219	Magenta 100%		
	220-229	M50%+W50%		
	230-249	W95%+Y5%		
	250-255	White 100%		
8CH	0-55	nod0 (fast)	You must use channel 1 along with 2, 3, or 4, otherwise no output.	1
	56-105	nod1		
	106-155	nod2		
	156-205	nod3		
	206-255	nod4 (slow)		

6. Control Panel Instructions



- MENU : access the menu or return to a previous menu option
- ENTER: select the current menu option
- UP: menu selection or parameter increases
- DOWN: menu selection or parameter decreases

7. Manual Instructions

Operating instruction:



1. MENU is used to access the menu or return to a previous menu option. It cannot be used to select and store the current menu option. Press UP / DOWN to choose a desired menu item. Here are the menu options:
 - "addr": DMX mode (d001-d512)
 - "UErn": Software version (UE2.0)
 - "nodE": DMX dimming mode (nod0- nod4) . This feature slows dimming response to mimic conventional lighting. (fast to slow – NOTE: Set to nod0 for instant dimming.)
 - "LEd": Turns display on or off for stealth use. (on/Off)
 - "SoUA": Sound activated mode (SouA)
 - "bL": Blue color brightness adjustment mode (b000- b255)
 - "GL": Green color brightness adjustment mode (g000- g255)
 - "rL": Red color brightness adjustment mode (r000-r255)
 - "FLAS": White color strobe (FL00-FL15)
 - "FAdE": Gradual change model (FA00-FA15)

- "ASC-": Colors jumping (AC00-AC15)
- "Pr--": Built-in program (Pr00-Pr15)
- "SP--": Built-in program speed change model (SP00-SP15)
- "SLAU": Slave mode (SL.AU)
- "CHnd": DMX Channel mode(3CH/6CH/7CH/8CH)

2. Examples

Press ENTER to access the further menu setting. This process can be saved automatically; that means you will enter the process saved previously when you activate the light next time.

Example: if you want to choose DMX mode d001:

- Press MENU, go back to the initial setting
- Press UP / DOWN until you see Addr
- Press ENTER to choose, the display will start blinking
- Press UP / DOWN to change the address code to select d001
- Press ENTER to select and store the current menu option. DMX mode will be stored automatically and the screen will stop blinking.

DMX channel selection

- Press MENU, go back to the initial setting
- Press UP / DOWN until "CHnd"
- Press ENTER to access the menu items to select, the screen will now be blinking
- Press UP/DOWN to choose the DMX Channel: 3CH, 6CH, 7CH, 8CH
- Press ENTER to confirm

To turn off display screen

- Press MENU, go back to the initial setting
- Press UP/DOWN, shows "LED"
- Press ENTER to access the menu items to select, the screen will now be glinting
- Press UP/DOWN to choose "oFF"
- Press ENTER to confirm. Display will automatically shut off after 20 seconds. Pressing any key will reactivate the menu

To use the built-in program (Pr- -)

- Press MENU, go back to the initial setting
- Press UP / DOWN until Pr- -
- Press ENTER to choose. The display will start blinking
- Press UP / DOWN to change the address code.
- Press ENTER to select and store the current menu options. DMX mode will be stored automatically and the screen will stop blinking.

Pr00: red
Pr01: green
Pr02: blue
Pr03: amber
Pr04: cyan
Pr05: purple
Pr06: white
Pr07: red strobe

Pr08: green strobe
Pr09: blue strobe
Pr10: amber strobe
Pr11: cyan strobe
Pr12: purple strobe
Pr13: white strobe
Pr14: three color (RGB) strobe
Pr15: seven color strobe

Note: Pr7--- Pr15 can change the content of SP, correct the speed of jumping change, SP00 (fastest) to SP15 (slowest)

8. Operating Mode Instructions

➤ Master/Slave

Master: Units are set to master mode by default. (i.e. outputting DMX signal that mirrors their own DMX input) unless a DMX controller is used. Signal lines longer than 200 feet (60 meters) or 20 lamps should use a signal amplifier.

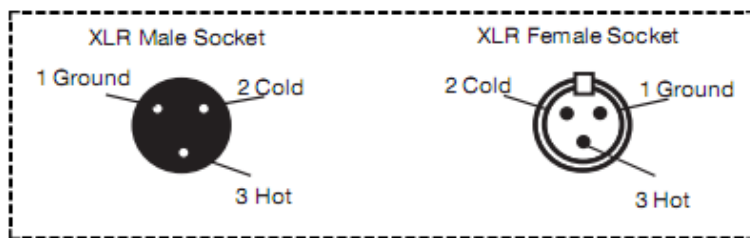
Slave: Connect all slave units to the master unit using a DMX cable. Set all slave units to SLAU mode OR address them to the same channel (typically d001). Any adjustments made to the master should be displayed on the slave units as well. To ensure proper signaling, only one light should be set as Master. Use of a DMX controller will override the signal output of a light that is using its own internal program (i.e. flash, fade)

9. XLR cable connection

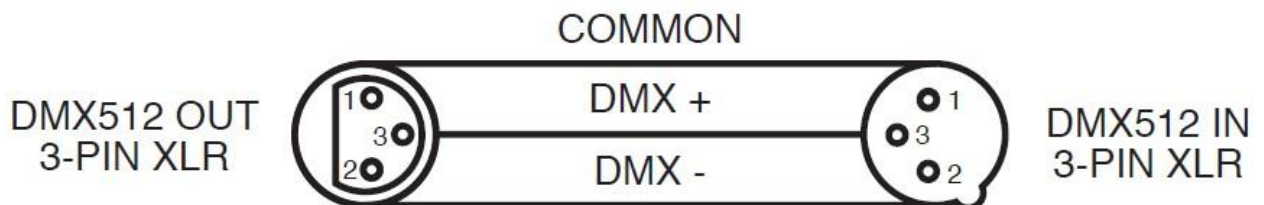
➤ XLR cable:

XLR/DMX connections are connected male to female as shown below:

pin 1: Ground, pin 2: Negative, pin 3: Positive



XLR Pin Configuration	
Pin 1 =	Ground
Pin 2 =	Data Compliment (negative)
Pin 3 =	Data True (positive)



Noted: In order to avoid failures and interference signal transmission, we connect a resistance 120Ω ($1/4W$) at the end of the DMX connecting as below:



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120Ω $1/4W$) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

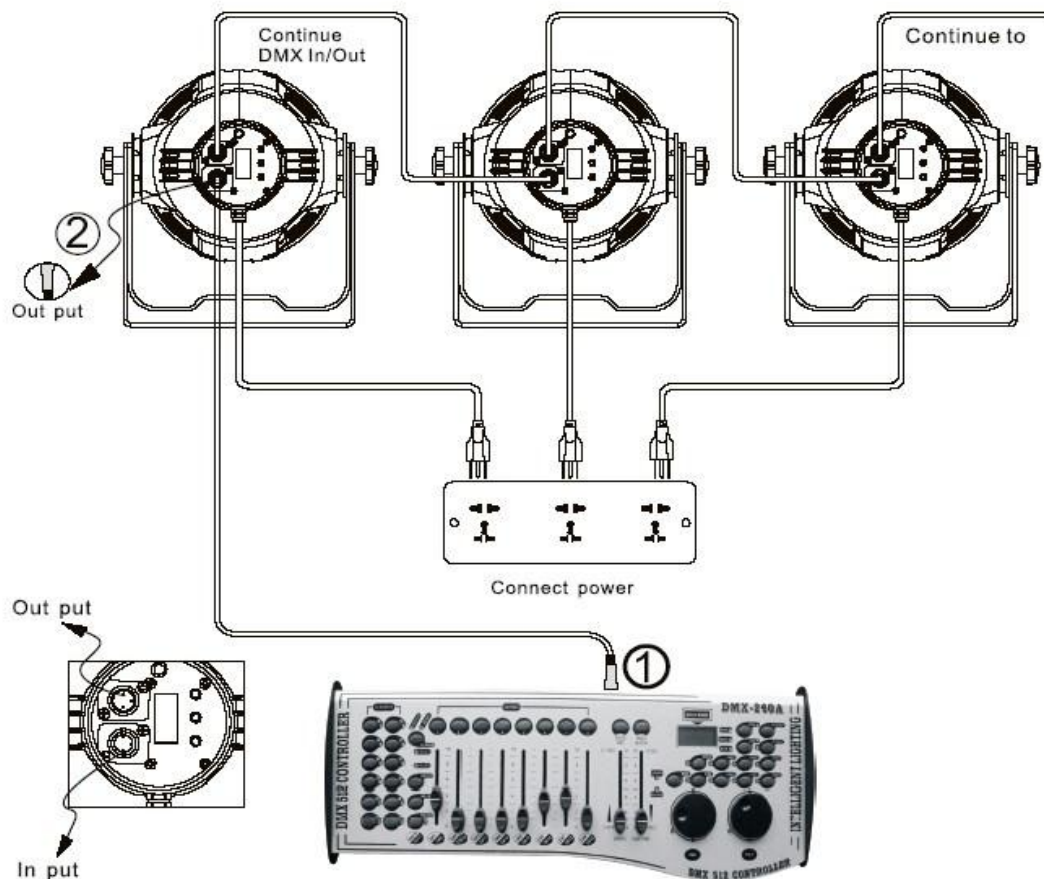
➤ The Conversion between 3pin and 5 pin XLR

If the output of the DMX512 controller is 5PIN, please use 1pc 5PIN to 3PIN cable.

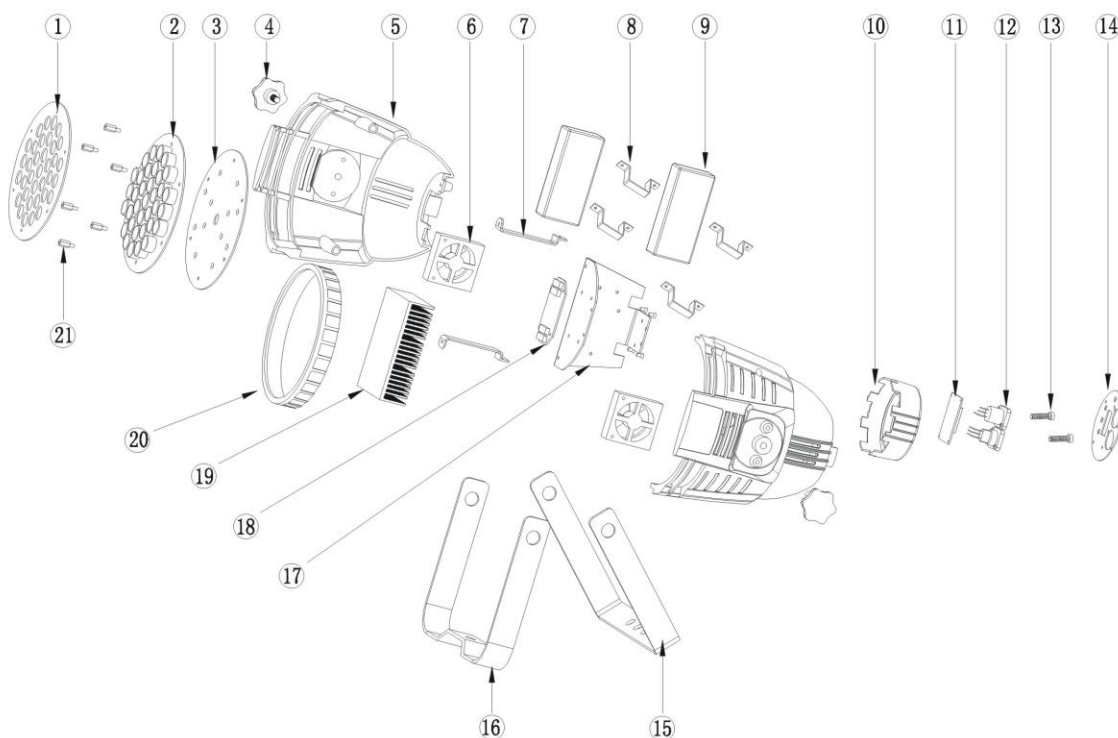
3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

10. Cable Connection Diagram

- Cable connection diagram



11. Exploded View



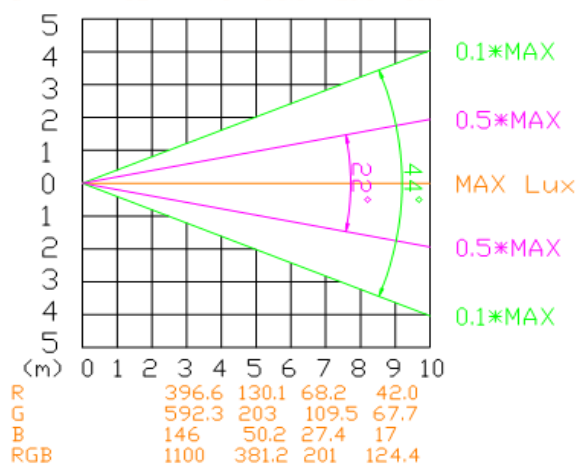
DS-0803A

Order number	Item	Quantity	Remarks
1	Lens platen	1PCS	
2	Aluminum base	1ASM	
3	Heating Panel	1PCS	
4	Rubber-headed screw	2PCS	
5	Lamp housing	2PCS	
6	Fan	2PCS	
7	Support frame	2PCS	
8	Power tabletting	4PCS	
9	Power supply	2PCS	
10	Chassis	1PCS	
11	Display board	1ASM	Finished product
12	XRL base board	1ASM	Finished product
13	Screw	2PCS	
14	screen platen	1PCS	
15	outside handle	1PCS	
16	inside handle	1PCS	
17	Power main board bracket	1PCS	
18	PCB control board	1ASM	
19	Radiator	2PCS	
20	light blocking ring	1PCS	
21	Copper pillar	6PCS	

12. Illuminance List

3W*12R-12G-12B light distribution

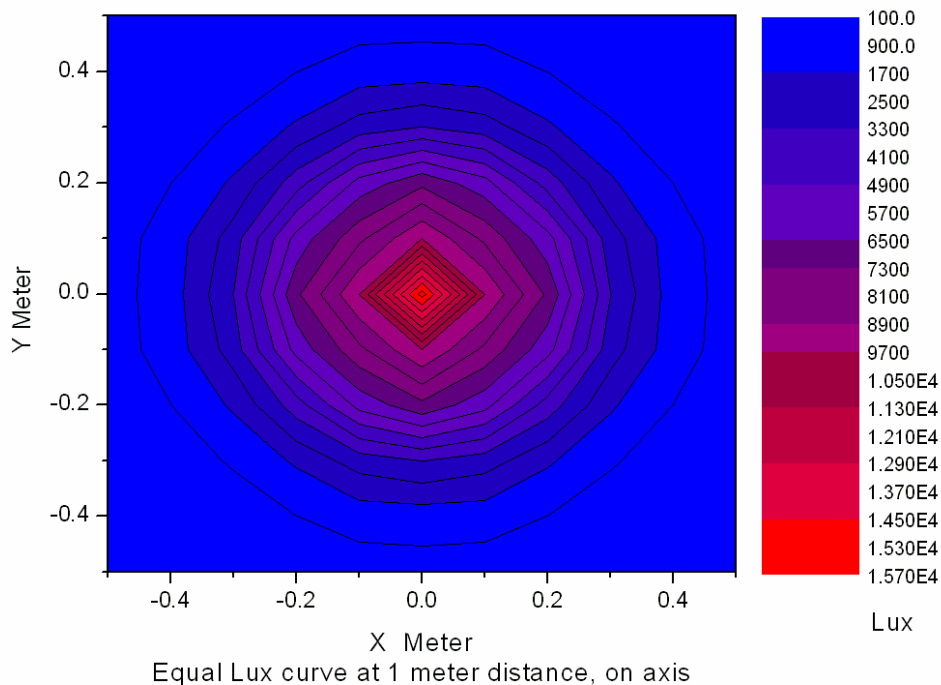
RGB 2540 550 268 160 99.6
 R 910 190.7 88.5 53.8 33.8
 G 1294 291.8 144.1 85.8 54.5
 B 324 73 36.5 21.3 13.6



Tipical Chromaticity

Colors	X CIE(1931)	Y CIE(1931)
R	0.6973	0.2989
G	0.1626	0.7396
B	0.1372	0.0559
RGB	0.3029	0.2397

Luminance Distribution



13. Troubleshooting

Problem	Possible Cause/Solution
Cannot turn light on	<ul style="list-style-type: none"> ◆ Check that the power plug is fully inserted ◆ Check that the power switch to the lights is on ◆ Check for blown fuse on circuit
DMX not functioning	<ul style="list-style-type: none"> ◆ Check that the DMX cable is connected to the lights ◆ Check if the light is in DMX mode (d001) ◆ Check the DMX512 controller for signal output ◆ Check that the DMX cable is good
Display not bright Or LEDs not coming on	<ul style="list-style-type: none"> ◆ When initially powered on, did the LEDs flash once? If so, the power source is normal; if not, please check the voltage switch or transformer ◆ Check if the power input to the IC board is normal ◆ Check if the cable connected to the display is loose ◆ Replace the main board
Several LEDs of one color don't light	<ul style="list-style-type: none"> ◆ LEDs are connected in series first then in parallel. Check to see if any LEDs are loose ◆ Use a multimeter to check continuity of each LED. Replace burned out LED ◆ Check whether transistor is loose or bad ◆ Check whether current limiting resistor is good ◆ Check constant current IC is normal or not (compared with the normal IC)
Single color LEDs always bright/not bright	<ul style="list-style-type: none"> ◆ Check the switch of this color is normal or not ◆ Change the IC control board

Note: Only professional technicians can do above

14. Technical Specifications

- Input voltage: AC 100V-264V/47-63HZ
- Output voltage: DC24V
- Power Consumption: 108W
- Lamp Type: LED (3W)
- Lamp Spec: Red (12pcs), Green (12pcs), Blue (12pcs)
- Control Signal: DMX512, Sound activated, Auto run
- Control mode: Stand-alone/Sound activated
- Channel: 3, 4, 6, 7, 8 CH
- Color effect: RGB mixing
- Function Effect: Dimmer, Strobe, Gradual change
- Beam Angle: 25° (15° or 45° lenses optional)
- Anti-electricity intension: 1.5kV
- Insulation Resistance: $> 2 \text{ M}\Omega$
- Size: 330*295*220mm
- Net Weight: 5kg